



US006791757B2

(12) **United States Patent**
Hobbs et al.

(10) Patent No.: US 6,791,757 B2

U.S. Patent

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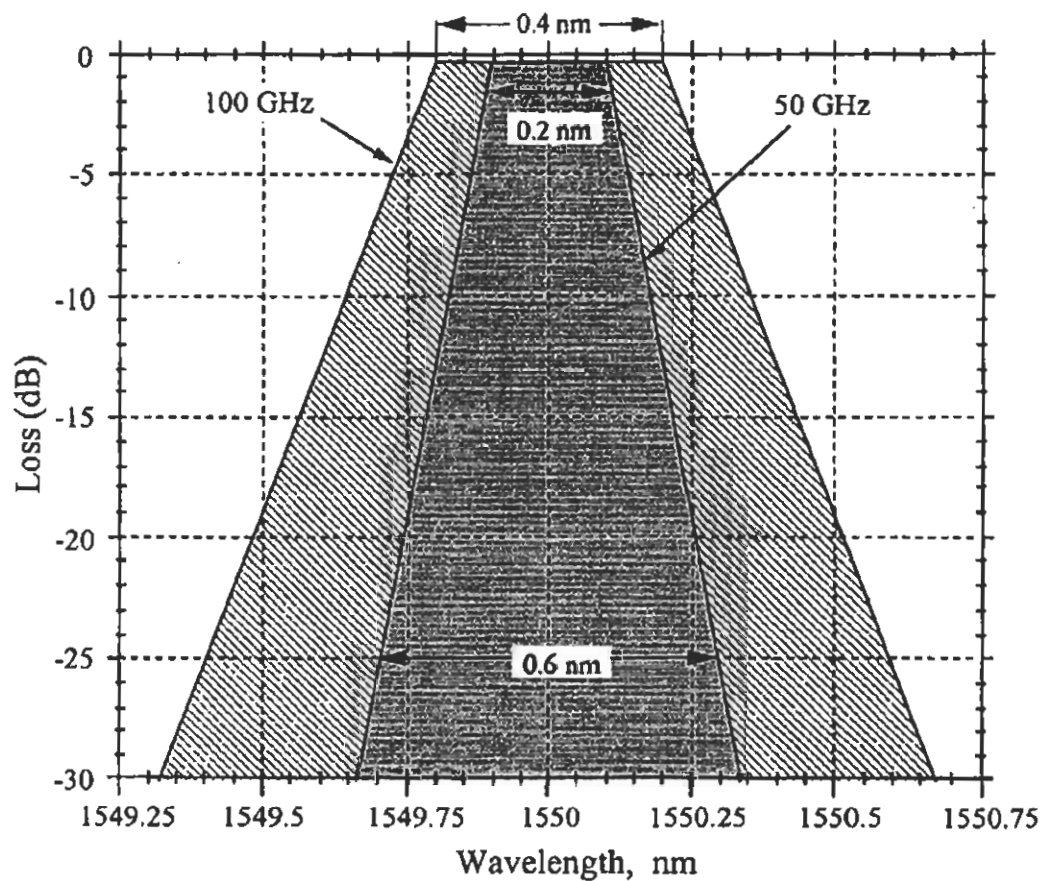


FIG. 1

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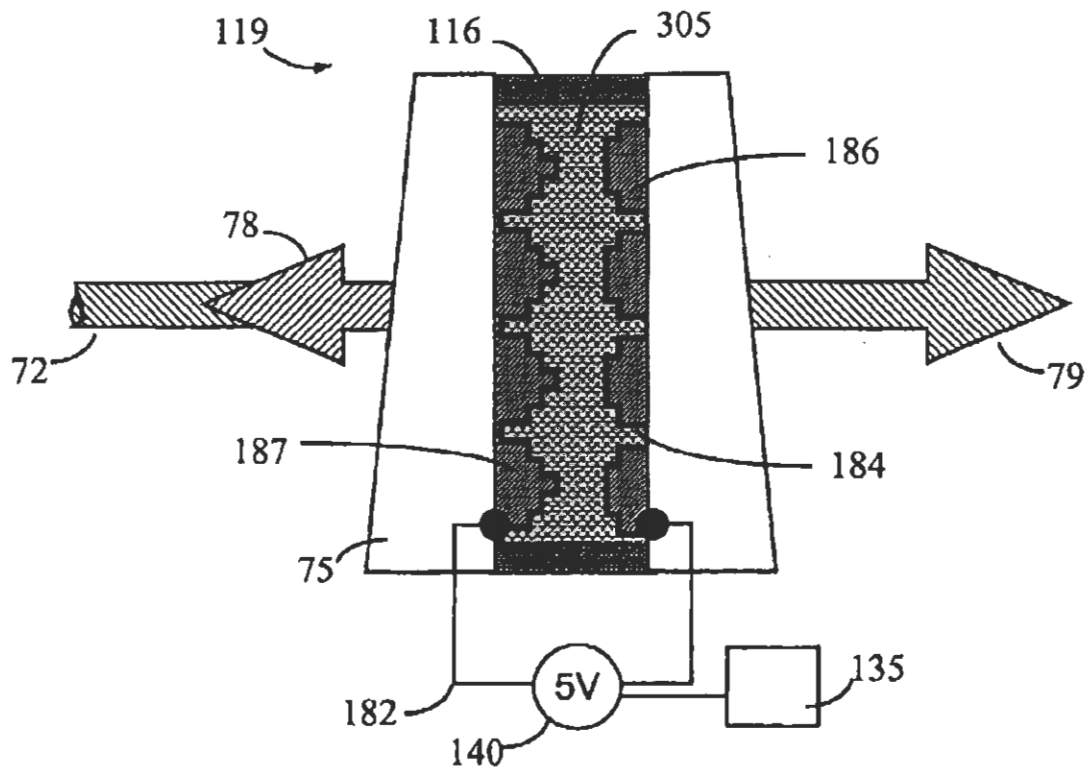


FIG. 2

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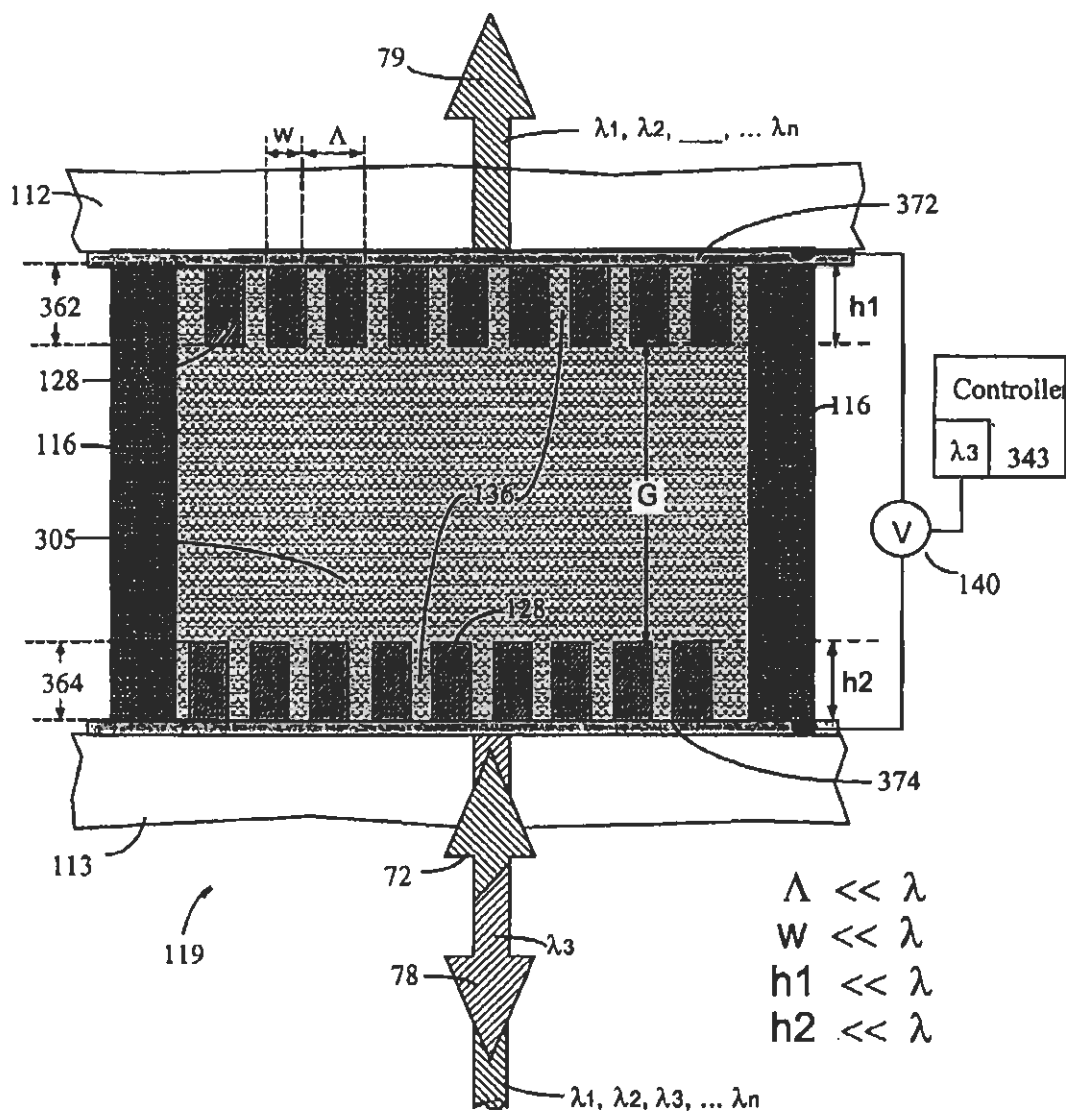


FIG. 3

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ETCH PROCESS

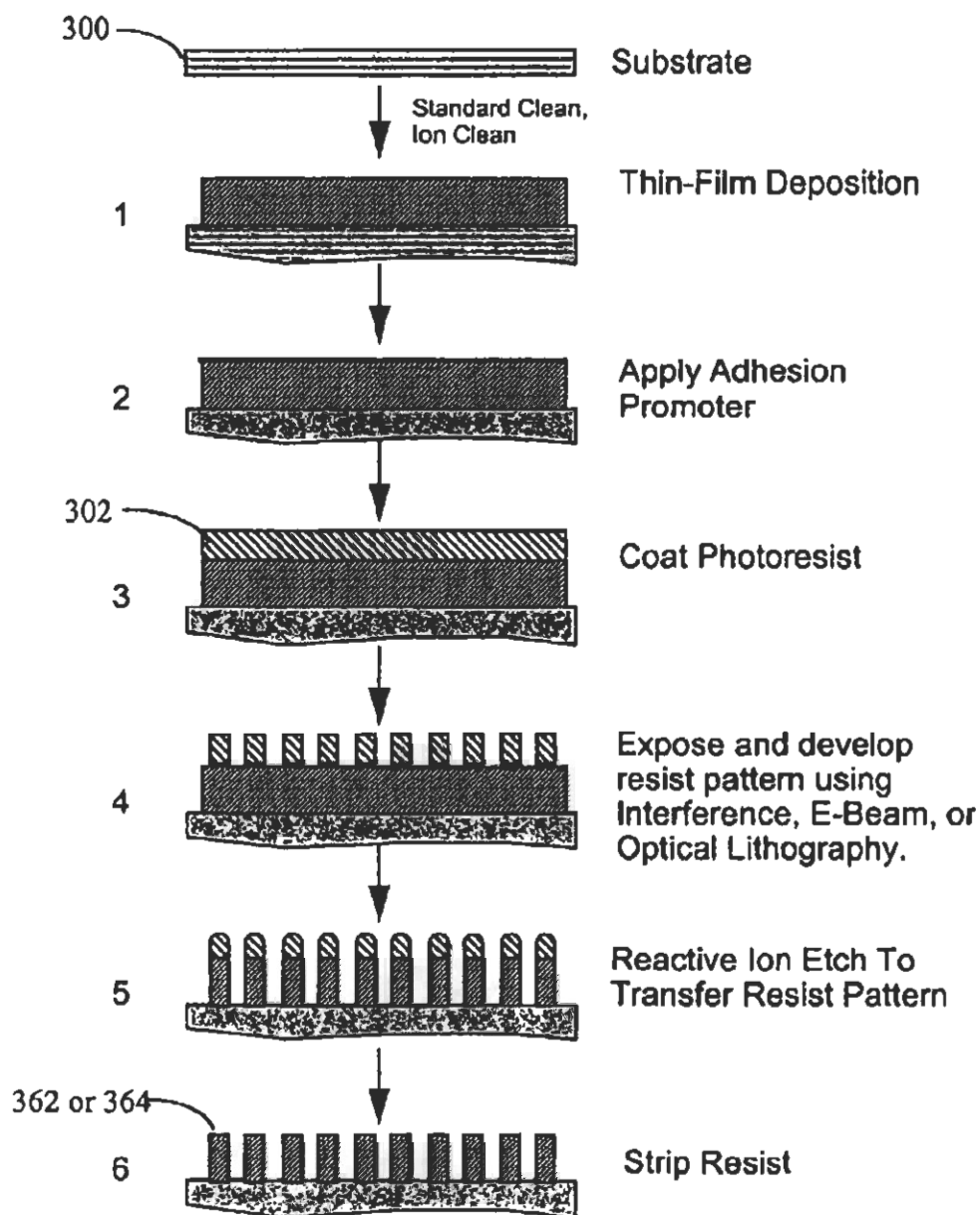


FIG. 4A

Prior Art

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LIFTOFF PROCESS

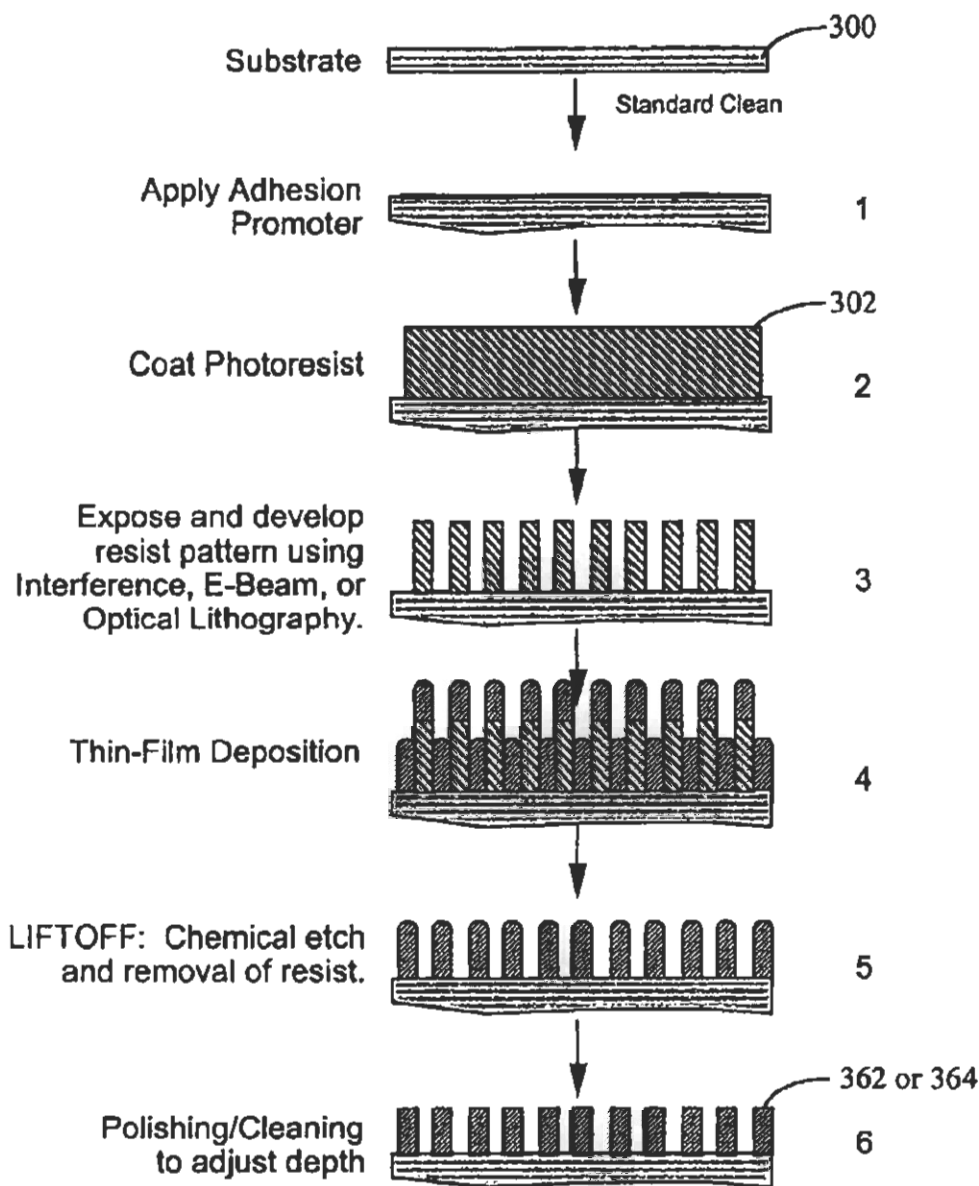


FIG. 4B

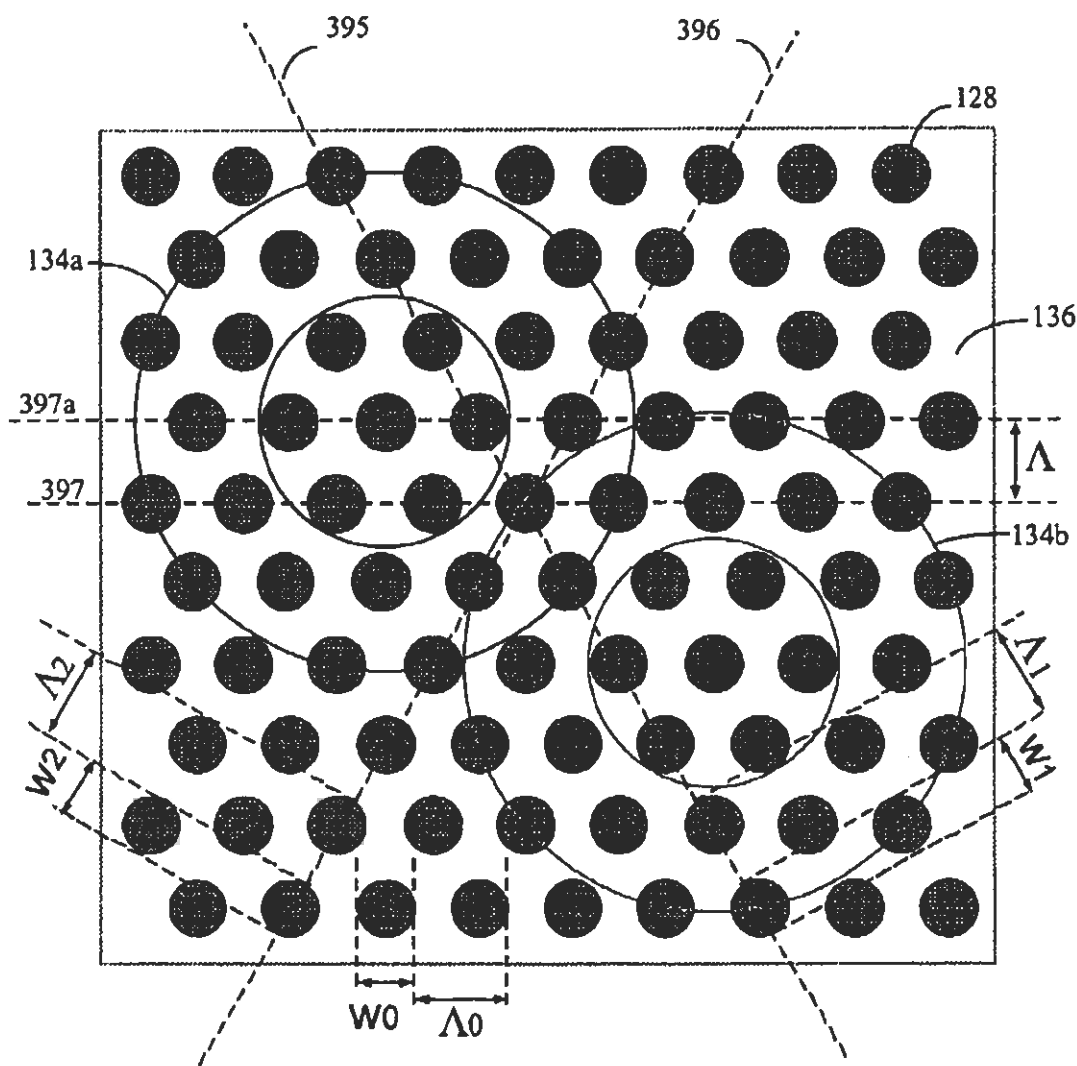
Prior Art

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$$\begin{aligned} W_0 &= W_1 = W_2 \\ \Lambda_0 &= \Lambda_1 = \Lambda_2 \end{aligned}$$

$$\Lambda = (\sqrt{3}/2) \Lambda_0$$

$$\begin{aligned} \Lambda &\ll \lambda \\ w &\ll \lambda \end{aligned}$$

FIG. 5

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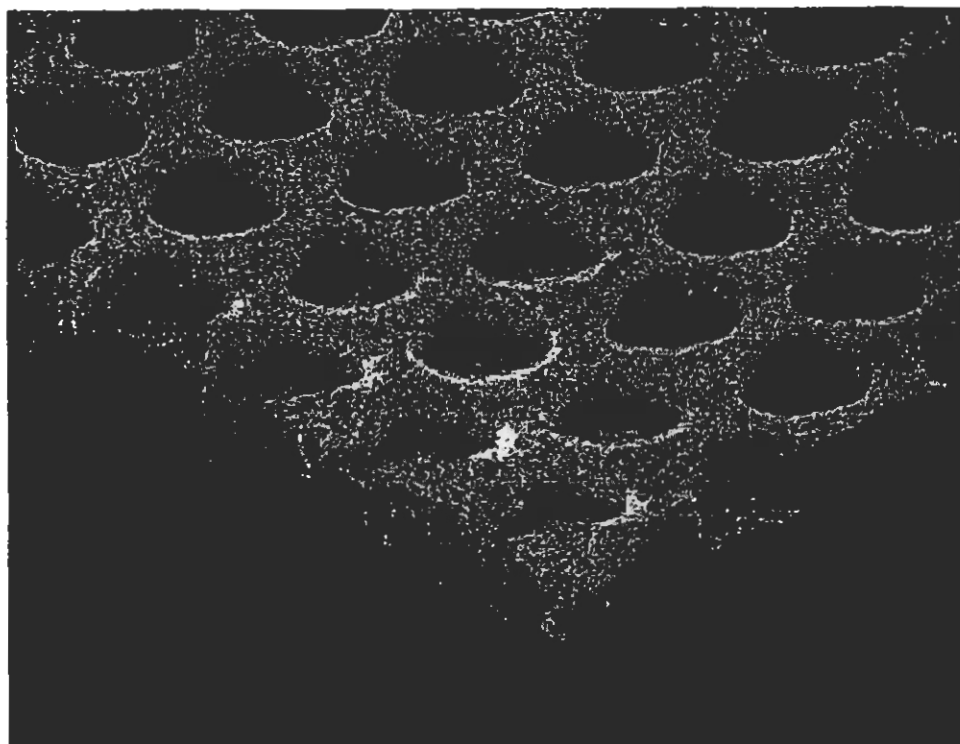


FIG. 6

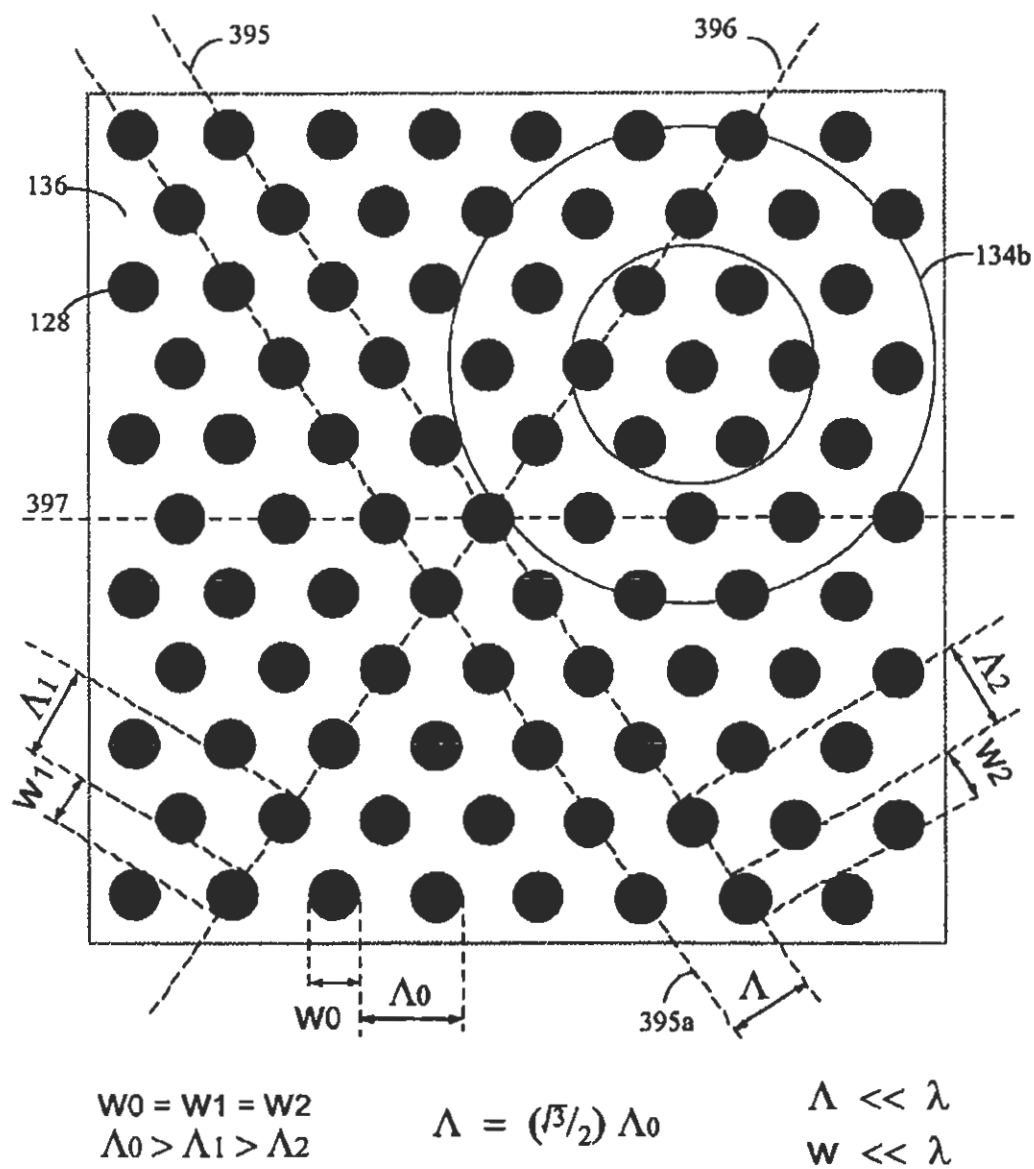


FIG. 7

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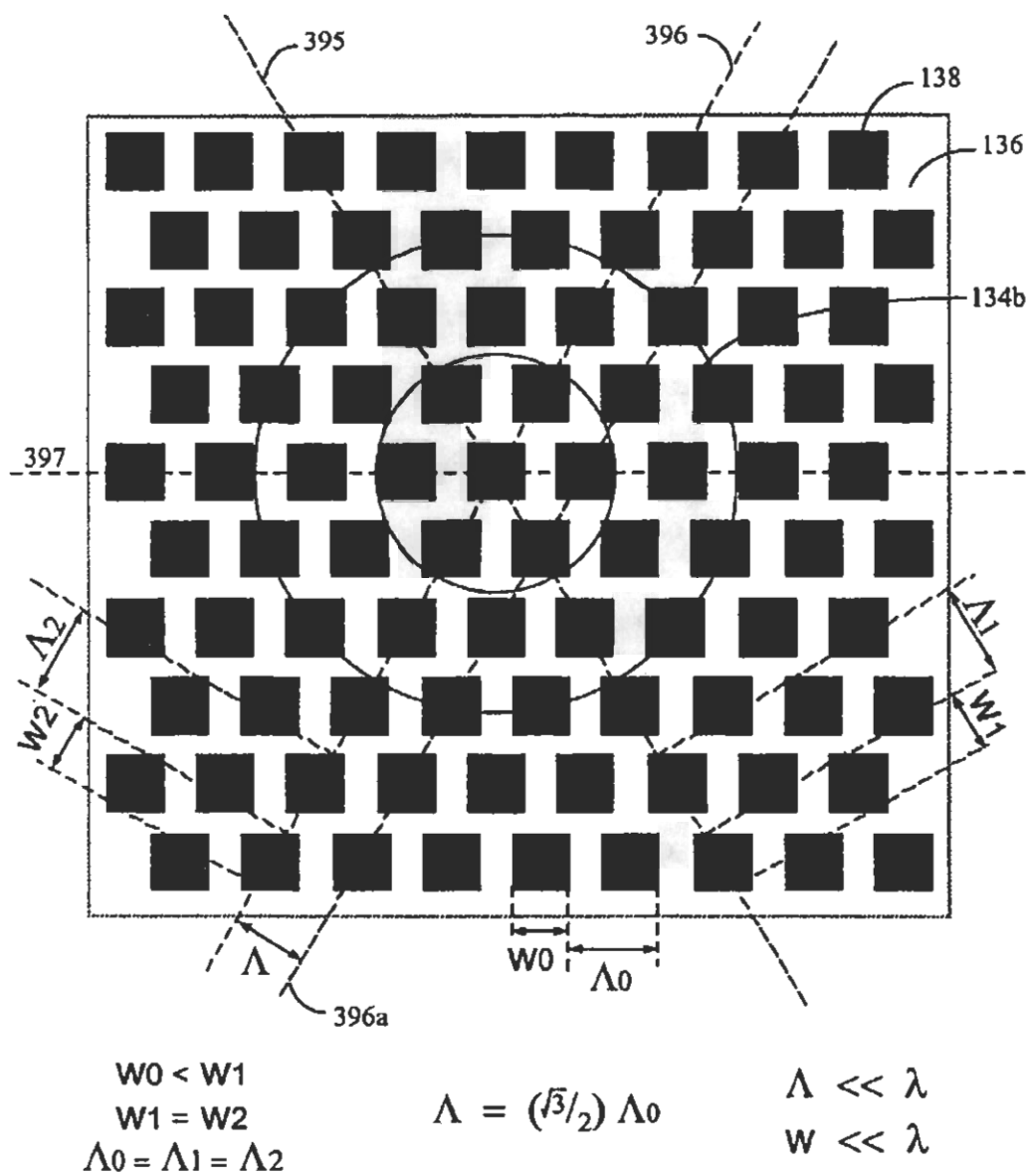


FIG. 8

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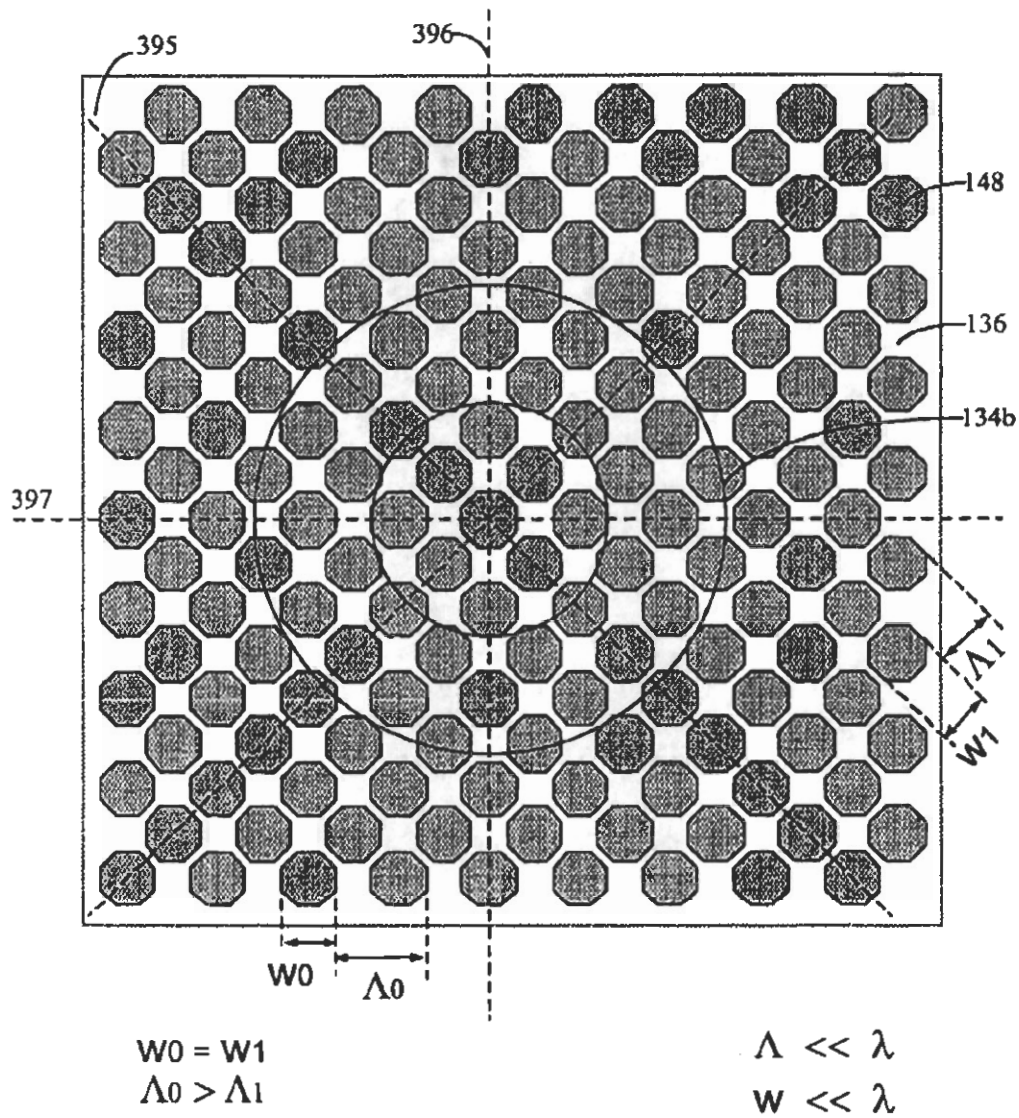


FIG. 9

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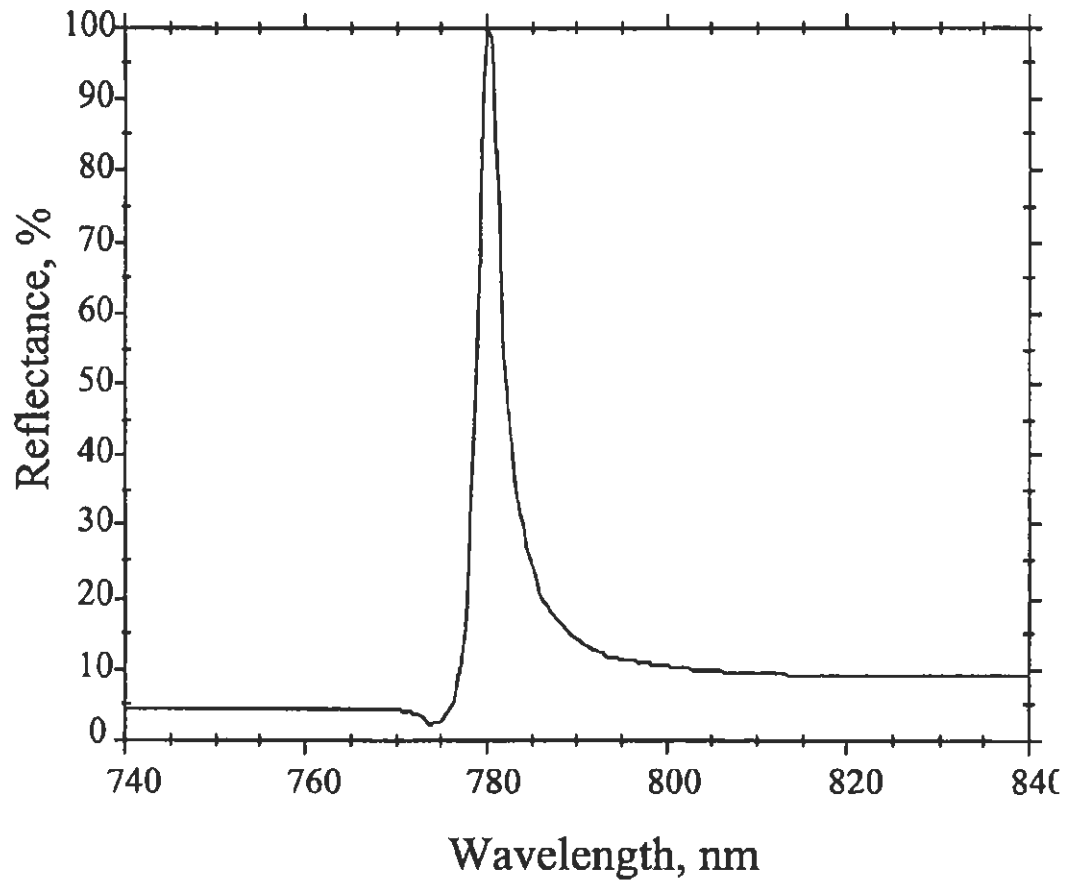


FIG. 10

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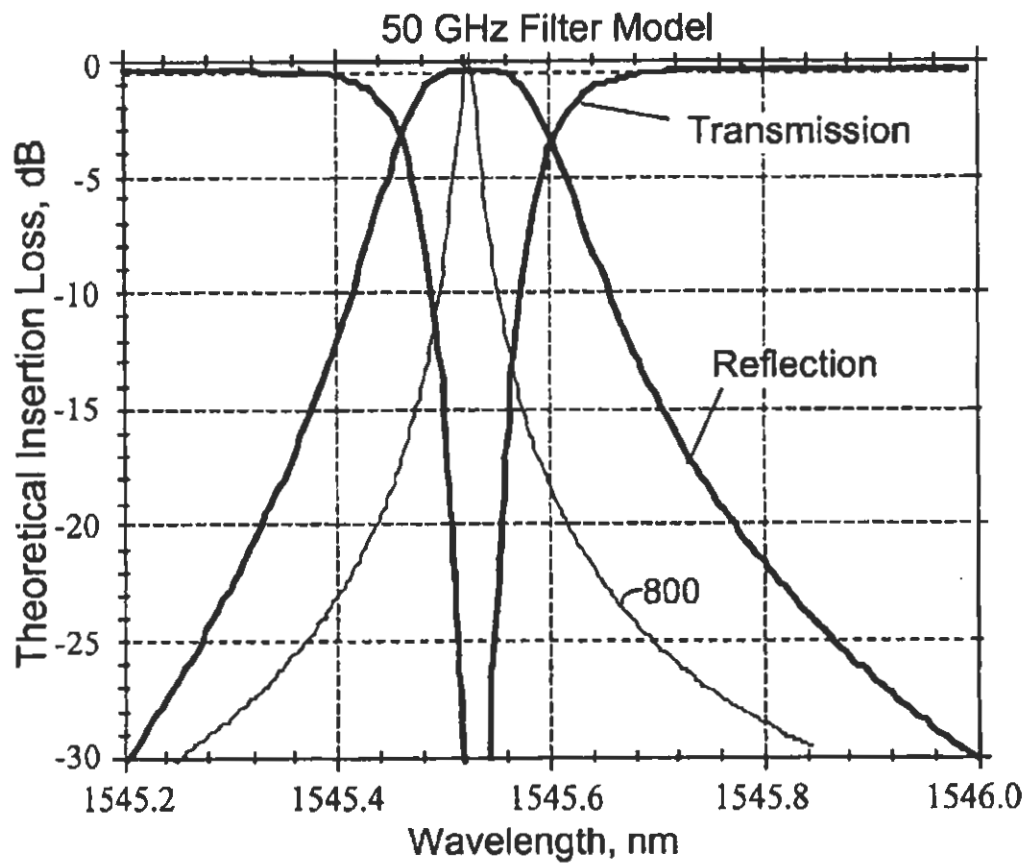


FIG. 11

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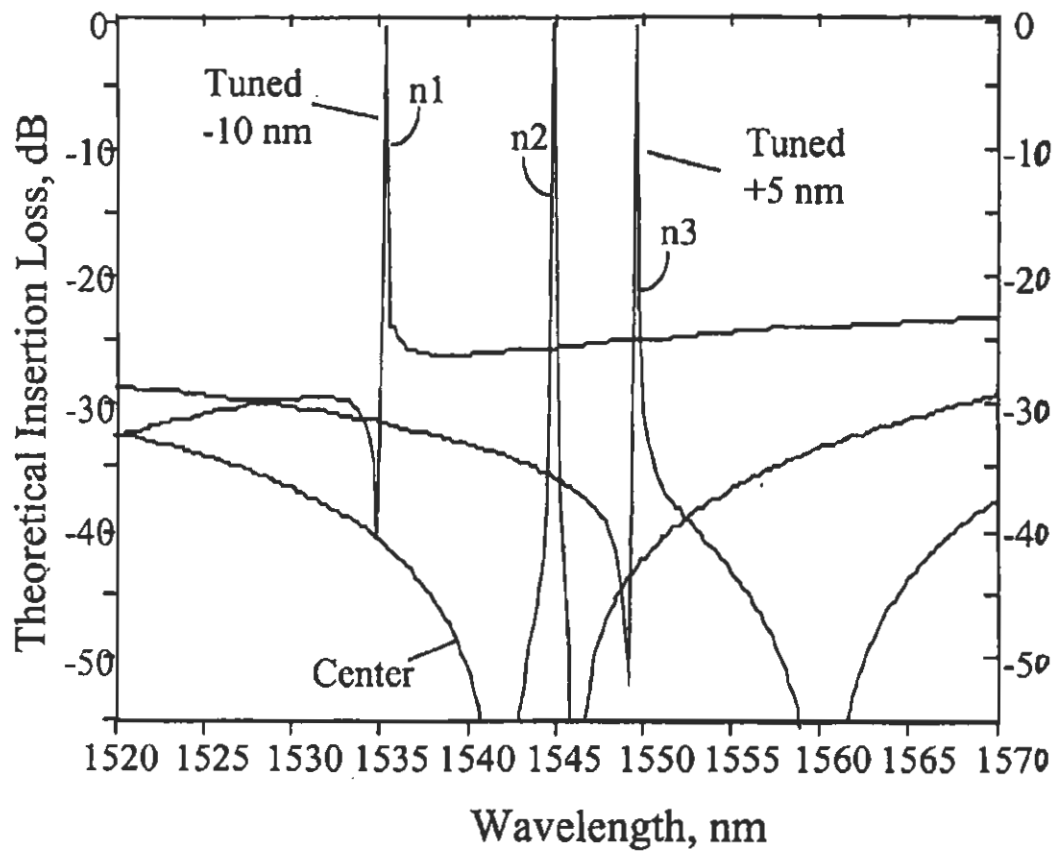


FIG. 12

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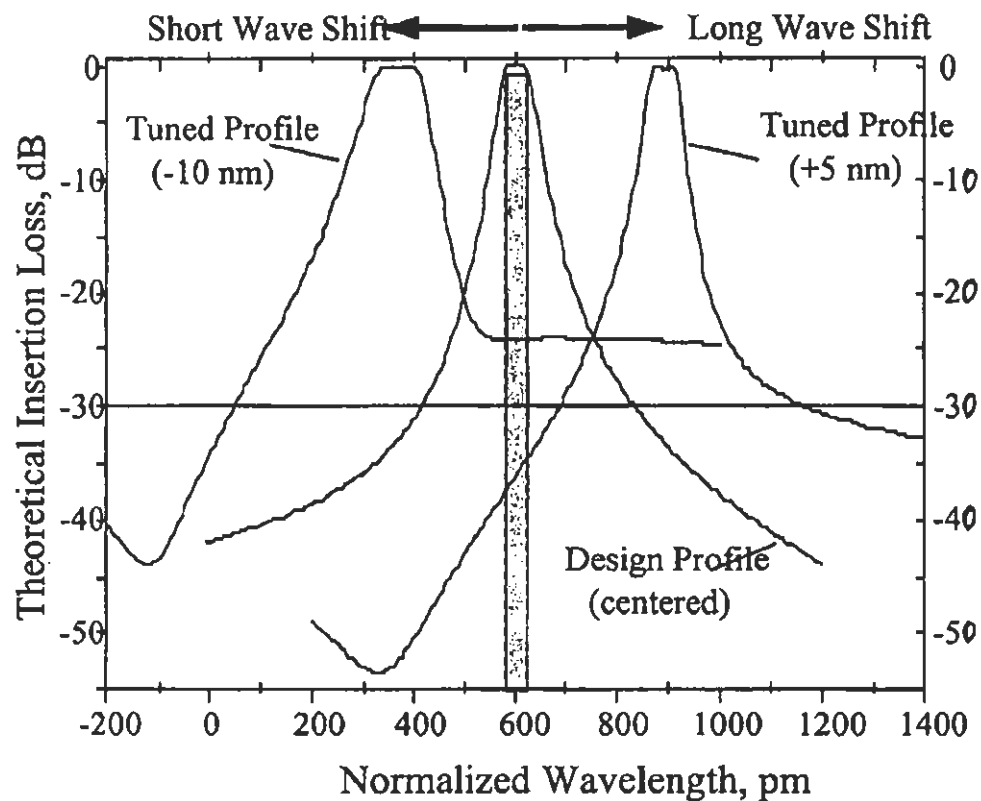


FIG. 13

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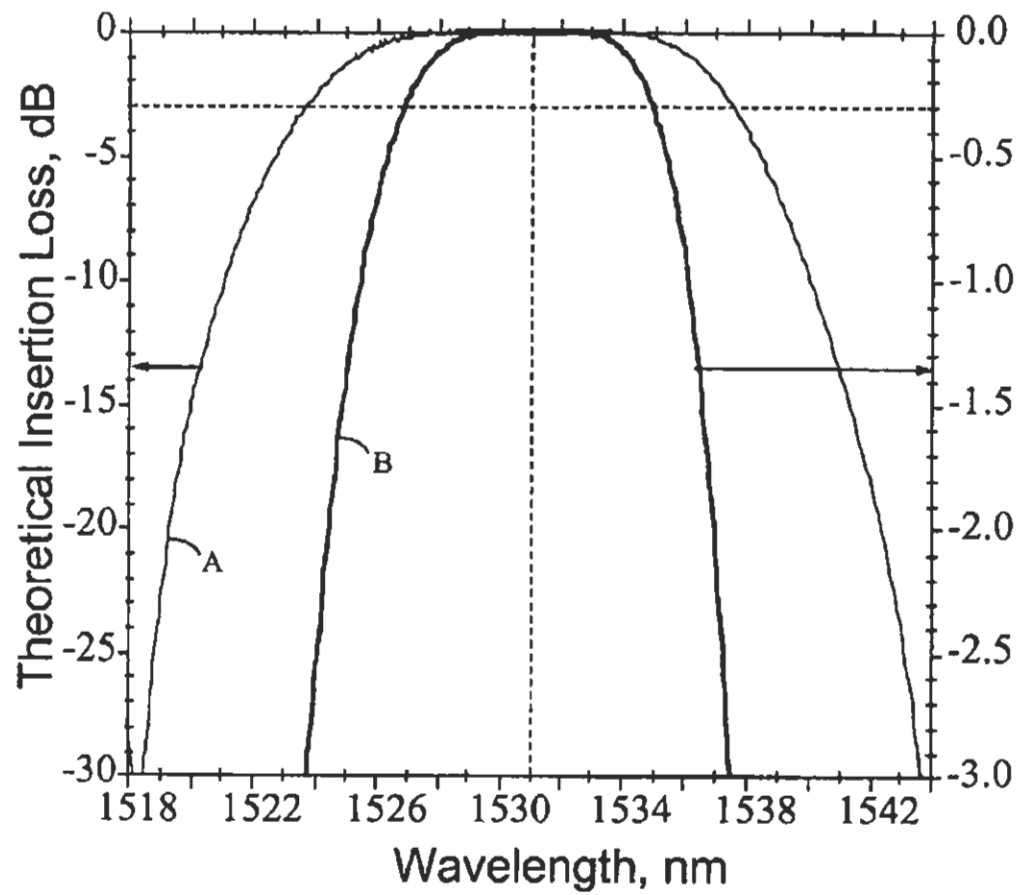


FIG. 14

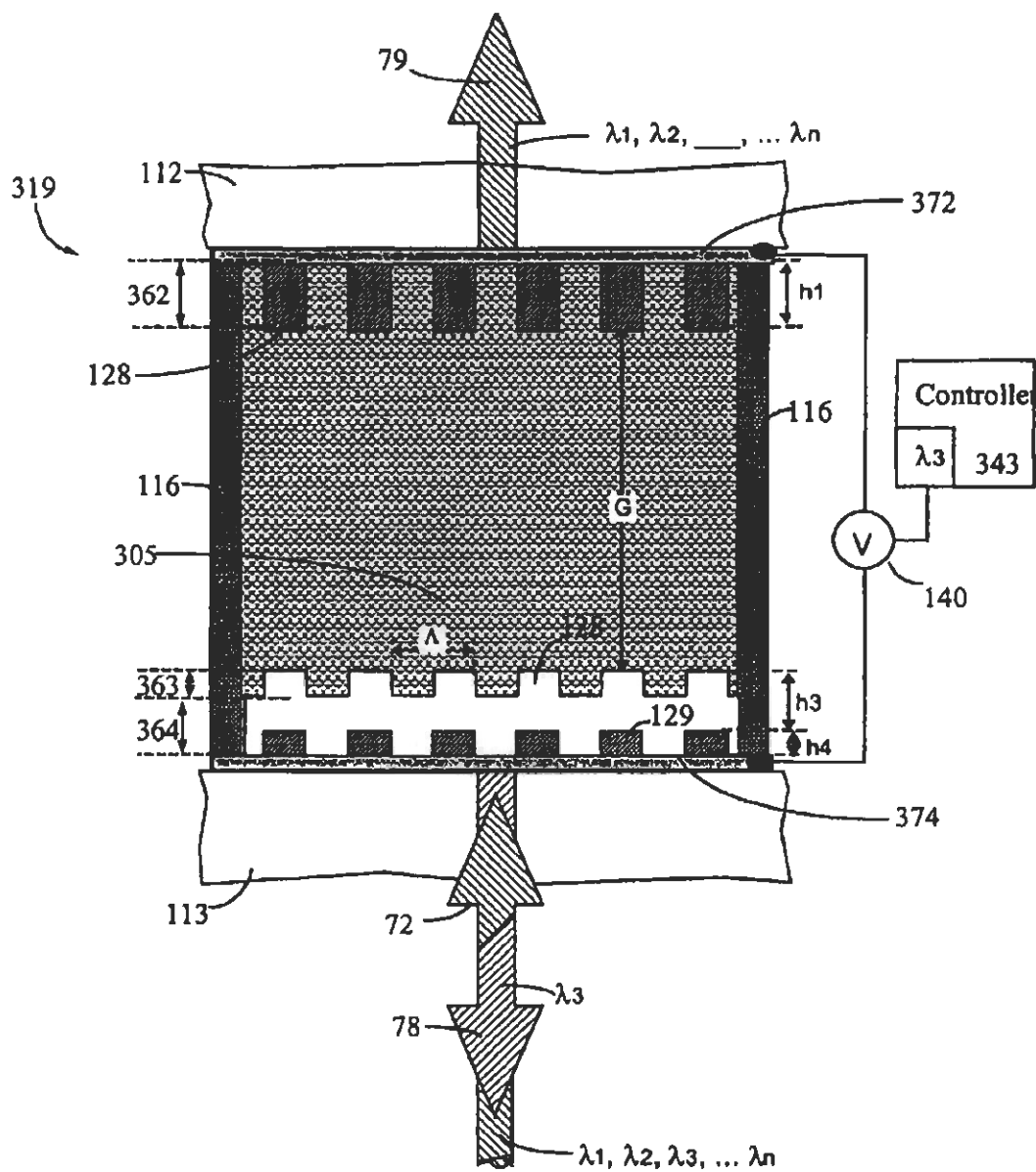


FIG. 15A